

Fig. 1

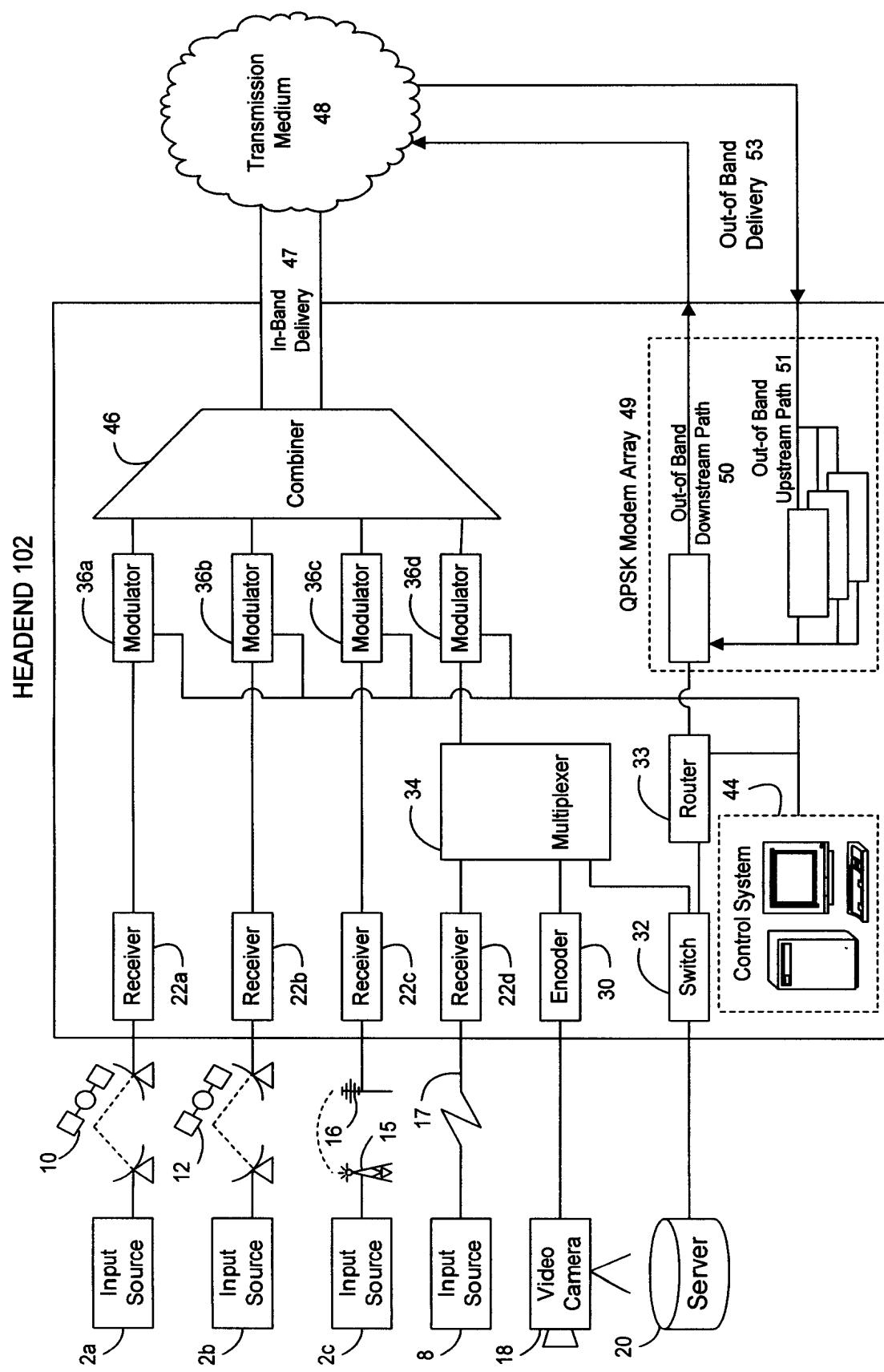
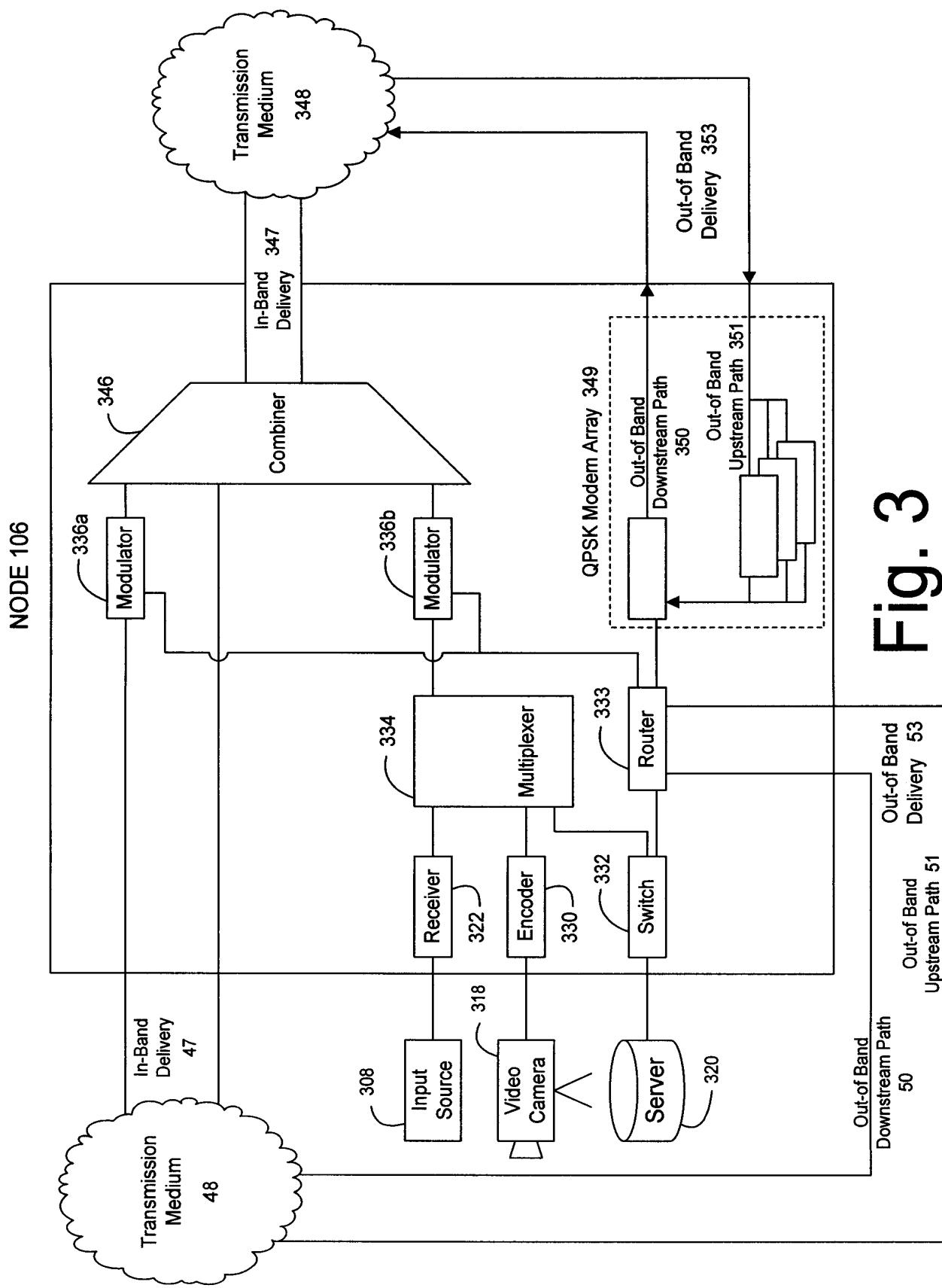


Fig. 2

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**Fig. 3**

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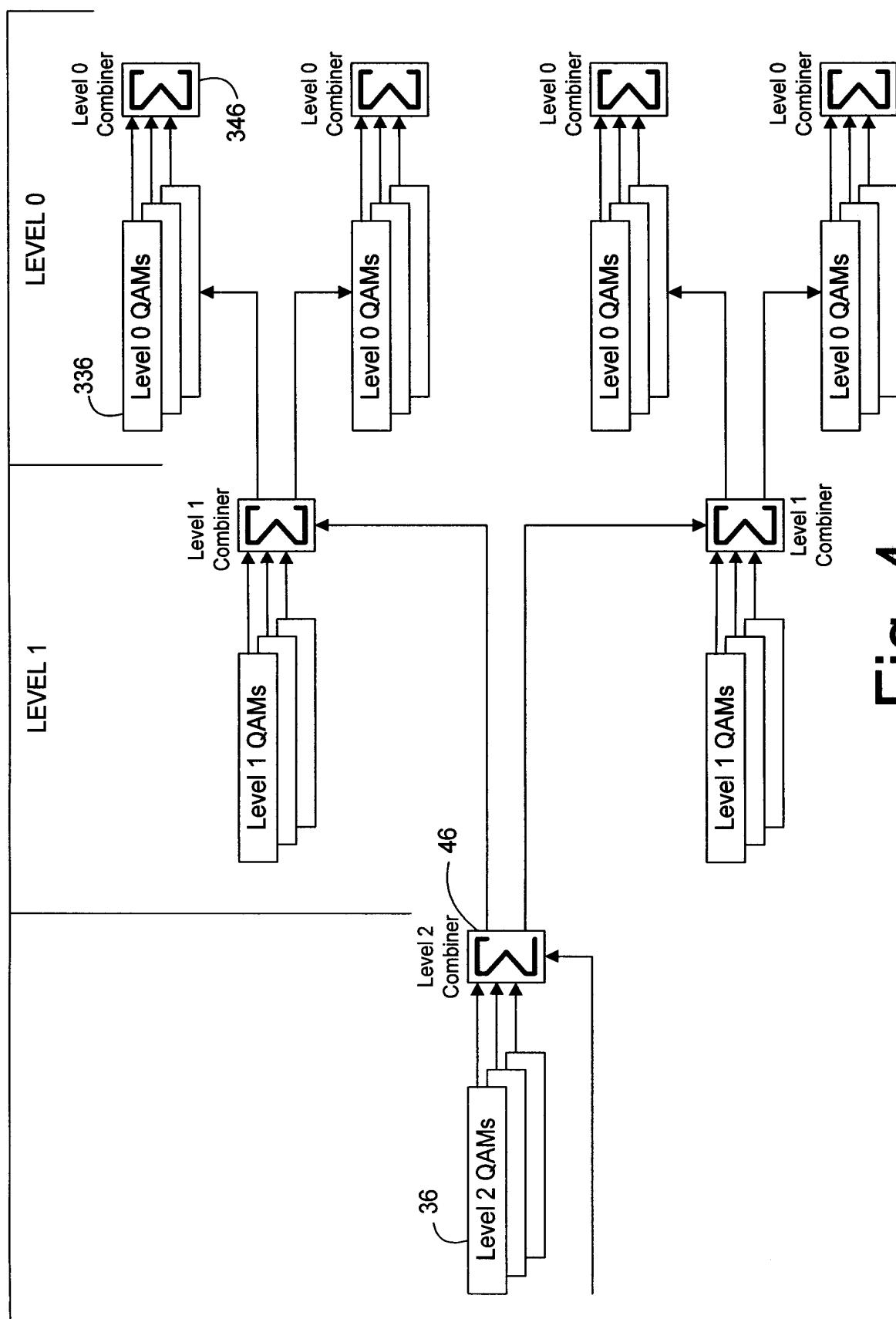


Fig. 4

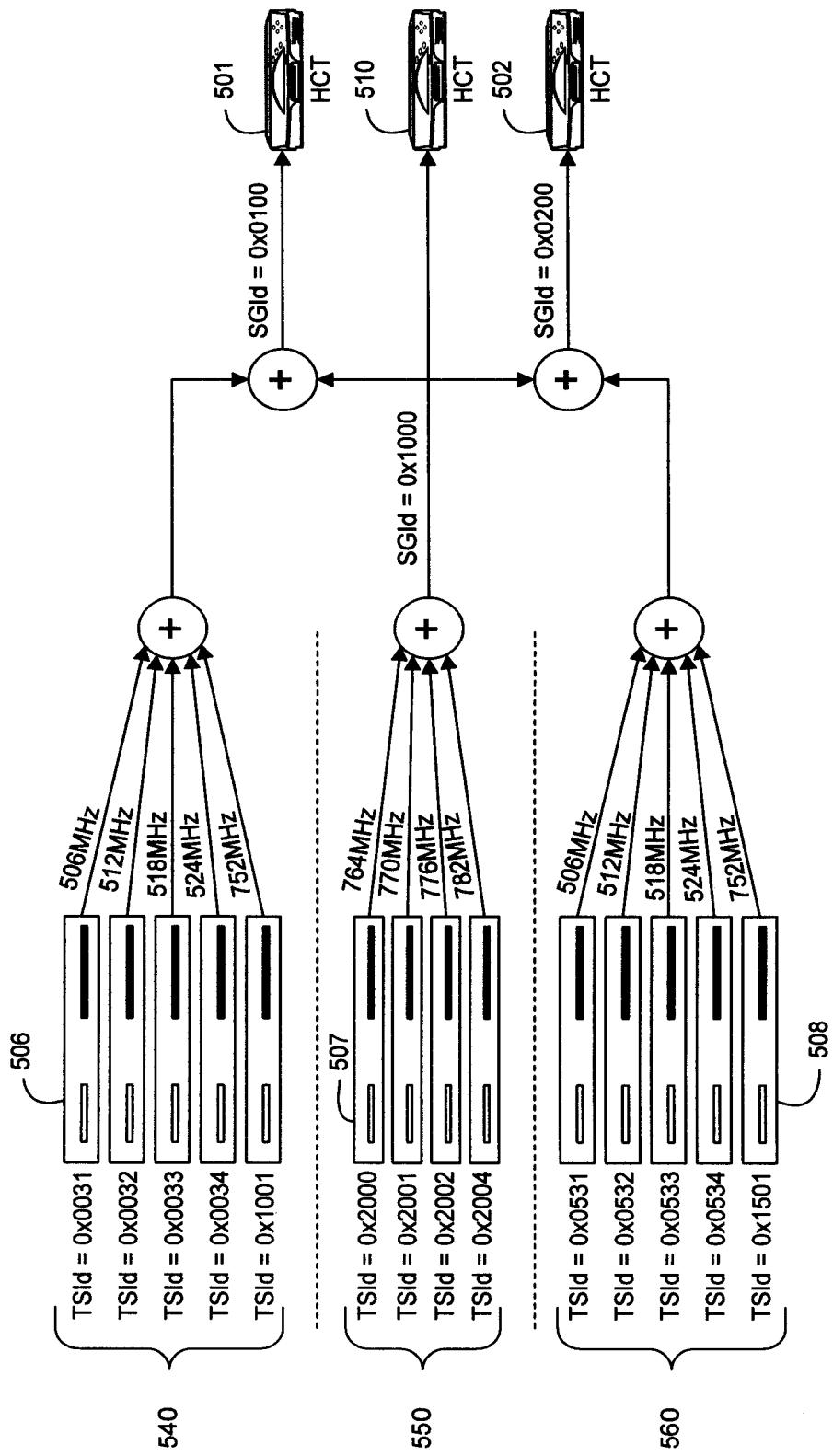


Fig. 5

SERVICE GROUP MAP TABLE_600


| TSId | SGId | transmission_system | inner_coding_mode | split_bitstream_mode | modulation_format | symbol_rate | frequency |
|------------------|--------|---------------------|---------------------|----------------------|-------------------|------------------------|-----------|
| mapVersion = 126 | | | | | | | |
| mapEntries = 14 | | | | | | | |
| 0x0031 | 0x0100 | 2 (ITU-B) | 7 (rate 3/4 coding) | 0 (no) | 8 (QAM 64) | 27000000 (27 Msym/sec) | 506 MHz |
| 0x0032 | 0x0100 | 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 512 MHz |
| 0x0033 | 0x0100 | 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 518 MHz |
| 0x0034 | 0x0100 | 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 524 MHz |
| 0x1001 | 0x0100 | 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 752 MHz |
| 0x0531 | 0x0200 | 2 (ITU-B) | 7 (rate 3/4 coding) | 0 (no) | 8 (QAM 64) | 27000000 (27 Msym/sec) | 506 MHz |
| 0x0532 | 0x0200 | 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 512 MHz |
| 0x0533 | 0x0200 | 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 518 MHz |
| 0x0534 | 0x0200 | 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 524 MHz |
| 0x1501 | 0x0200 | 2 | 7 | 0 | 16 (QAM 256) | 38000000 (38 Msym/sec) | 752 MHz |
| 0x2000 | 0x1000 | 2 | 7 | 0 | 16 (QAM 256) | 38000000 | 764 MHz |
| 0x2001 | 0x1000 | 2 | 7 | 0 | 16 (QAM 256) | 38000000 | 770 MHz |
| 0x2002 | 0x1000 | 2 | 7 | 0 | 16 (QAM 256) | 38000000 | 776 MHz |
| 0x2003 | 0x1000 | 2 | 7 | 0 | 16 (QAM 256) | 38000000 | 782 MHz |

Fig. 6

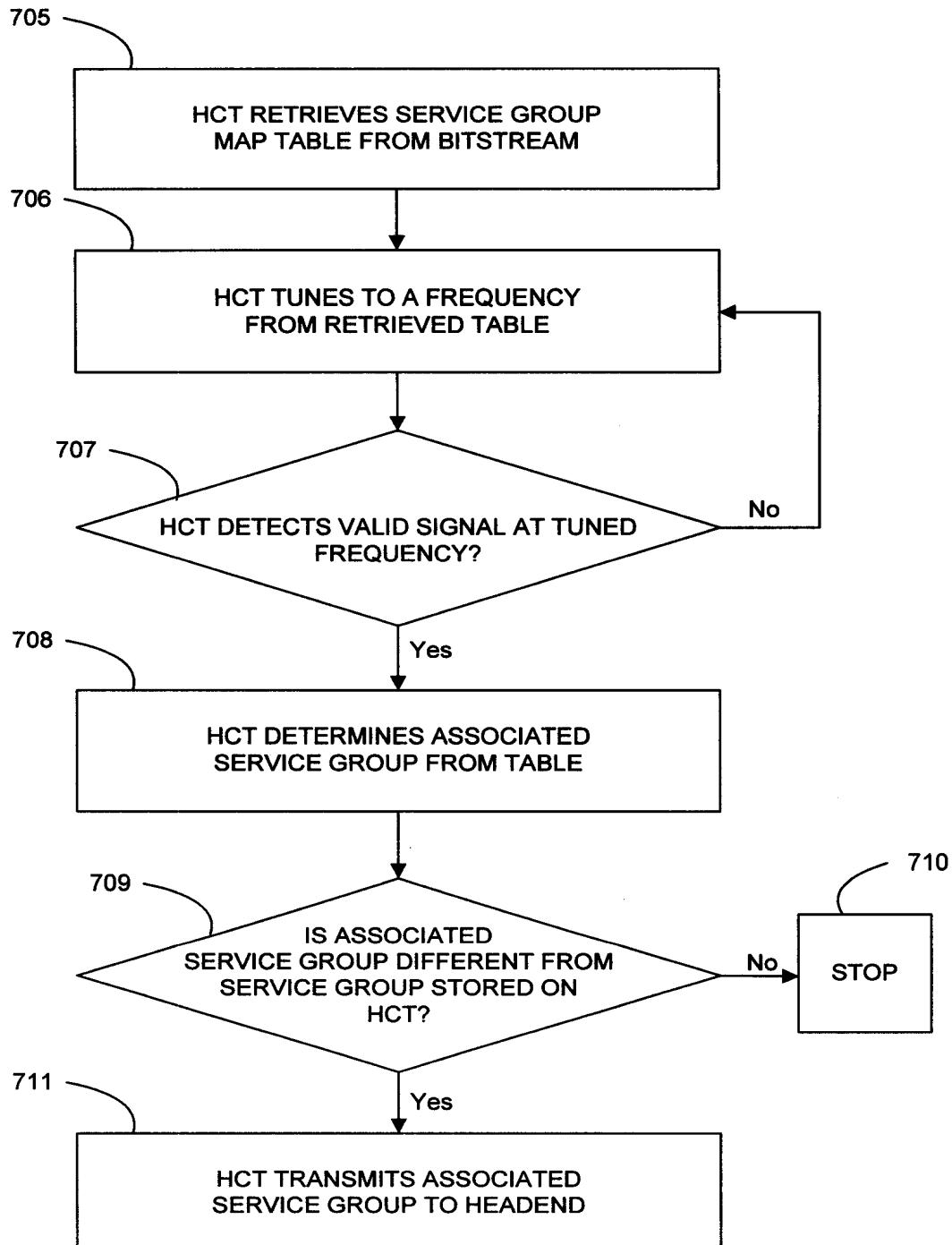
SERVICE GROUP ASSOCIATION METHOD 700

Fig. 7

MODULATOR TUNING TABLE 800


| <u>transmission_system</u> | <u>inner_coding_mode</u> | <u>split_bitstream_mode</u> | <u>modulation_format</u> | <u>symbol_rate</u> | <u>frequency</u> |
|----------------------------|--------------------------|-----------------------------|--------------------------|---------------------------|------------------|
| mapEntries = 10 | | | | | |
| 2 (ITU-B) | 7 (rate 3/4 coding) | 0 (no) | 8 (QAM 64) | 27000000 (27 Msym/sec) | 506 MHz |
| 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 512 MHz |
| 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 518 MHz |
| 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 524 MHz |
| 2 | 7 | 0 | 8 (QAM 64) | 27000000 | 525 MHz |
| 2 | 7 | 0 | 16 (QAM 256) | 38000000 (38 Msym/sec) | 752 MHz |
| 2 | 7 | 0 | 16 (QAM 256) | 38000000 | 764 MHz |
| 2 | 7 | 0 | 16 (QAM 256) | 38000000 | 770 MHz |
| 2 | 7 | 0 | 16 (QAM 256) | 38000000 | 776 MHz |
| 2 | 7 | 0 | 16 (QAM 256) | 38000000 | 782 MHz |

Fig. 8

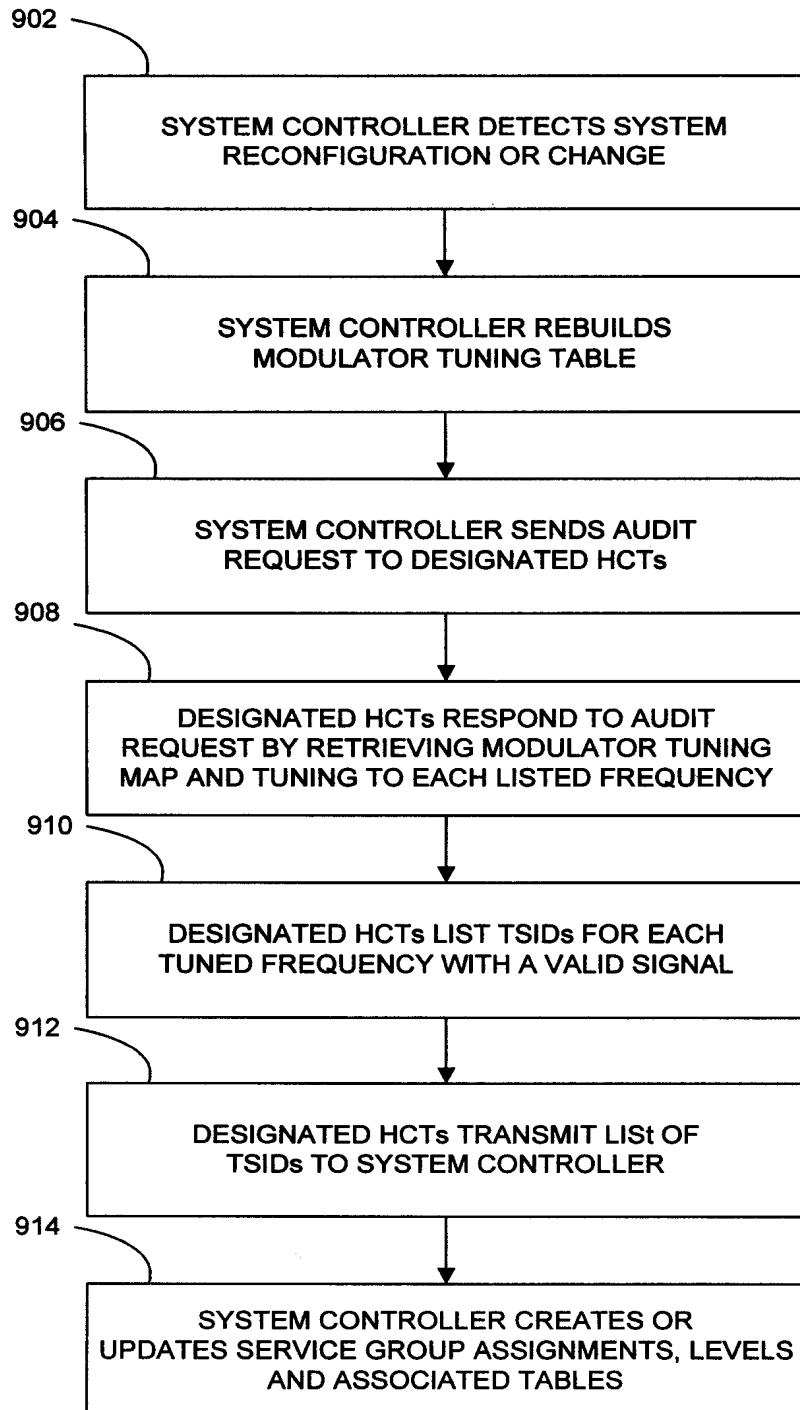
SERVICE GROUP AUDIT METHOD 900

Fig. 9